MMMMMM M	MMM MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	000000000 000000000 0000000000 000 000 000 000
----------	--	--	--	--	--

_\$2

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	
		\$		

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DP DP

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.TITLE MACSDATA STORAGE ALLOCATION FOR VAX NATIVE ASSEMBLER COPYRIGHT (c) 1978, 1980, 1982, 1984 BY DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS. ALL RIGHTS RESERVED. 10 THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY 12 13 14 15 16 17 TRANSFERRED. THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT 112222222222233333333333333 CORPORATION. DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL. 0000 0000 FACILITY: VAX MACRO ASSEMBLER OBJECT LIBRARY 0000 0000 ABSTRACT: 0000 0000 The VAX-11 MACRO assembler translates MACRO-32 source code into object modules for input to the VAX-11 LINKER. ENVIRONMENT: USER MODE AUTHOR: Benn Schreiber, CREATION DATE: 30-AUG-78 MODIFIED BY: MTR0020 Mike Rhodes 07-Jul-1982 Add MAC\$GL_DSLISF disabled option flag cell to allow for controlled overriding of macro directives V03-03 MTR0020 from the command level. MTR0018 Mike Rhodes 07-Jun-1982 Add MAC\$GL_FNLSTS final status data cell which contains the final exit status for MACRO, when multiple assemblies are to be done. This cell holds the most severe status of all assemblies. V03-02 MTR0018 MTRO014 Mike Rhodes 16-Apr-1982 Fix data declaration for MACSGL_CVTADDR, which V03-01 caused occassional access violations.

0000	58 :	v02.23	PCG0008 Peter George 26-Aug-1981 Fix the data allocation for MAC\$GO_VALUEO. Add MAC\$GL_CVTADDR.
0000 0000 0000 0000 0000 0000	556666666667777777777788888888888899999999	v02.22	CNH0045 Chris Hume 1-Dec-1980 Increased size of parser value stack. Stack overflow remains undetected. Also advanced displayed IDENT to 2.46. (DATA1.MAR 02.26, MAIN.MAR 02.46)
0000	67 68 68	v02.21	
0000 0000 0000 0000	70 : 71 : 72 :	v01.20	RN0023 R. Newland 3-Nov-1979 New message codes to get error messages from system message file.
0000 0000 0000	74 75	v01.19	RN0022 R. Newland 31-Oct-1979 Translate SYS\$LP_LINES to set lines/page
0000	77 : 78 :	v01.19	RN0014 R. Newland 12-Oct-1979 Support for G_floating, H_floating and Octaword data types
0000	80 : 81 :	v01.18	RN0011 R. Newland 11-Sep-1979 New librarian support
0000 0000 0000	83 84 85	v01.17	RN0008 R. Newland 29-Aug-1979 31 character symbols
0000	86 :		RN0005 R. Newland 10-Aug-1979 Symbolically defined maximum argument size RN0002 R. Newland 01-Feb-1979
0000	88 ;	V01.15	RN0002 R. Newland 01-Feb-1979
0000 0000 0000 0000 0000	90 :	v01.17	Changes for Source Update Merge RN0007 R. Newland 22-Aug-1979 Fix character table error for { \ } ~ and DEL.
0000 0000 0000	93 94 95 :	v01.14	008 B. Schreiber 22-JAN-1979 Better bookkeeping of allocated pages.

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Page (3)

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.SBTTL CHARACTER TOKEN TABLE
                                             FUNCTIONAL DESCRIPTION:
                                                         THE CHARACTER TABLE ('MAC$AL CHRTAB') IS USED TO DETERMINE WHICH TOKENS CAN POSSIBLY BE STARTED WITH A GIVEN CHARACTER. THE PROCEDURE IS TO OBTAIN THE FIRST CHARACTER OF THE TOKEN AND GET THE TABLE ENTRY CORRESPONDING TO THE ASCII VALUE OF THE CHARACTER. IF THE CHARACTER ITSELF IS A TOKEN (LIKE DDPLUS) THEN THE HIGH ORDER BIT WILL BE SET IN THE TABLE ENTRY. IF THE HIGH ORDER BIT IS NOT SET IT IS THE NAME OF A ROUTINE TO CALL TO DECIDE THE TOKEN TYPE. THIS ROUTINE MAY SCAN FURTHER AS IN THE CASE OF A SYMBOL, OR IT MAY SIMPLY LOOK AHEAD TO RESOLVE AN AMBIGUITY. IN ANY CASE, THE ROUTINE INVOLVED WILL RETURN THE TOKEN CLASS IN R8, THE ASSOCIATED VALUE (IF ANY) IN MAC$VALUE, AND THE CHARACTER POINTER WILL BE UPDATED PAST THE TOKEN SCANNED.
                                                         AN ADDITIONAL TABLE, MAC$AB CMSK TAB IS ALSO GENERATED. THIS IS A BYTE-ORIENTED TABLE, CONTAINING ONE BYTE FOR EACH CHARACTER. THE VALUES ARE SET FROM THE FLAGS ARGUMENT AND ARE USED IN
                                                          SCANC/SPANC INSTRUCTIONS TO LOOK FOR A PARTICULAR TYPE OF CHARACTER
                    0000
                    0000
                    0000
                    0000
80000000
                                                          SPECIAL = "X80000000" ;FLAG THAT CHAR IS SPECIAL
                                                          .MACRO $CHR_TABENTRY VAL=0, SPF=0, FLAGS=0
.LONG SPF+VAL
                                                          .LONG
                                                          .PSECT
                                                                         MAC$CHR_FLG_TAB, NOWRT, NOEXE, GBL, LONG
                                  160
                                                          .BYTE
                                                                          FLAGS
                                                          .PSECT
                                                                         MAC$CHRTAB, NOWRT, NOEXE, GBL, LONG
                                  162
163
                                                          .ENDM
                                                                          SCHR_TABENTRY
                    0000
            00000000
                                                          .PSECT MACSCHR_FLG_TAB, NOWRT, NOEXE, GBL, LONG
                                  166 MACSAB_CMSK_TAB::
                                                                                                                         :FLAG BITS FOR CHARACTERS
           00000000
                                  168
                                                          .PSECT MACSCHRTAB, NOWRT, NOEXE, GBL, LONG
                                  170 MACSAL_CHRTAB::
                                                                                                                         CHARACTER TOKENS
                                                         $CHR_TABENTRY 0,,CHR$M_SPA_MSK!CHR$M_SYM_DLM ; IGNORE NULLS .REPT 8
                                  174
175
176
177
178
179
                                                         SCHR TABENTRY
                                                                                         MACSCHRERR,, CHRSM_SYM_DLM ; 0-8 ARE ILLEGAL CHARACTERS
                                                         $CHR_TABENTRY
$CHR_TABENTRY
$CHR_TABENTRY
$CHR_TABENTRY
$CHR_TABENTRY
REPT_18
                                                                                         O,,CHR$M_SPA_MSK!CHR$M_SYM_DLM :IGNORE TAB
O,,CHR$M_SPA_MSK!CHR$M_SYM_DLM :IGNORE LINE FEED
MAC$CHRERR,CHR$M_SYM_DLM ;VERTICAL TAB IS ERROR
                                                                                                                                                          :IGNORE TAB
:IGNORE LINE FEED
                                                                                         O, CHR$M_SPA_MSK! THR$M_SYM_DLM ; IGNORE FORM FEED DEOL, SPECIAL, CHR$M_COMMA_CR! CHR$M_SYM_DLM ; CR IS END OF LINE
                                  180
181
182
                                                          $CHR_TABENTRY MAC$CHRERR,,CHR$M_SYM_DLM ;CTRL-N TO CTRL-SHIFT-O ARE ERRORS
```

```
STORAGE ALLOCATION FOR VAX NATIVE ASSEMB 16-SEP-1984 02:18:06 CHARACTER TOKEN TABLE 5-SEP-1984 01:47:48
                                                                                                        VAX/VMS Macro V04-00 [MACRO.SRC]DATA.MAR;1
                                                                                                                                                                 (3)
                                                                O,,CHR$M_SPA_MSK!CHR$M_SYM_DLM_;IGNORE_SPACE
DOR,SPECIAL,CHR$M_SYM_DLM_;(!)
MAC$CHRERR,CHR$M_SYM_DLM;(") IS AN ERROR
MAC$XPOUND,CHR$M_SYM_DLM;(")
MAC$SYMBOL,CHR$M_SYM_CHR!CHR$M_SYM_CH1;($)
MAC$CHRERR,CHR$M_SYM_DLM_;(")
DAND,SPECIAL,CHR$M_SYM_DLM_;(")
DOPN,SPECIAL,CHR$M_SYM_DLM_;(")
DOPN,SPECIAL,CHR$M_SYM_DLM_;(")
DTIMES,SPECIAL,CHR$M_SYM_DLM_;(")
DPLUS,SPECIAL,CHR$M_SYM_DLM_;(")
DPLUS,SPECIAL,CHR$M_SYM_DLM_;(")
DCOMMA,SPECIAL,CHR$M_SYM_DLM_;(")
DCOMMA,SPECIAL,CHR$M_SYM_DLM_;(")
DMINUS,SPECIAL,CHR$M_SYM_DLM_;(")
MAC$SYMBOL,CHR$M_SYM_DLM_;(")
                    183456789019834567199119911997
                                       SCHR_TABENTRY
SCHR_TABENTRY
        0088
                                       SCHR_TABENTRY
        0080
                                       SCHR_TABENTRY
        ŎŎŎŎ
                                       SCHR_TABENTRY
        0094
                                       SCHR_TABENTRY
        0098
                                       $CHR_TABENTRY
        0090
                                       SCHR_TABENTRY
        00A0
                                       SCHR_TABENTRY
        00A4
                                       SCHR_TABENTRY
        8A00
                                       $CHR_TABENTRY
        OOAC
                                       SCHR_TABENTRY
        00B0
                                       $CHR_TABENTRY
        00B4
                                       SCHR_TABENTRY
                    198
                                                                 MAC$SYMBOL., CHR$M SYM CHR! CHR$M SYM CH1 ; (.)
DDIV, SPECIAL, CHR$M SYM DLM ; (/)
        00B8
                                       $CHR_TABENTRY
                                       SCHR TABENTRY
        OOBC
                   SCHR TABENTRY
                                                                 MAC$NUMBER,,CHR$M_SYM_CH1!CHR$M_NUM_BER ;DIGITS
                                        . ENDR
                                                                 DCOLON, SPECIAL, CHR$M SYM DLM
MAC$CHRERR, CHR$M SYM DLM
DANGOPN, SPECIAL, CHR$M SYM DLM
DEQ, SPECIAL, CHR$M SYM DLM
DANGCLS, SPECIAL, CHR$M SYM DLM
                                       SCHR_TABENTRY
                                       SCHR_TABENTRY
                                                                                                                       ;(<)
                                       SCHR_TABENTRY
                                       $CHR_TABENTRY
                                                                                                                       : (=)
                                       $CHR_TABENTRY
                                                                                                                       :(>)
                                                                  MACSCHRERR,, CHRSM_SYM_DLM
                                       SCHR_TABENTRY
                                                                                                                       : (?)
                                       SCHR TABENTRY
                                                                  DAT, SPECIAL, CHR$M_SYM_DLM
                                                                                                                       : (9)
        0104
                                       SCHR_TABENTRY
                                                                  MAC$SYMNUM,, CHR$M_SYM_CHR!CHR$M_SYM_CH1 ; LETTERS A-F CAN STA
        0104
                                        . ENDR
                                                                 MAC$XSYMBL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1
MAC$SYMBOL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1
MAC$XSYMBL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1
                                       SCHR_TABENTRY
                                       SCHR TABENTRY
                                                                                                                                    ; (H)
                                       $CHR_TABENTRY
                                                                                                                                    :(1)
                                                                 MAC$SYMBOL, CHR$M_SYM_CHR!CHR$M_SYM_CH1
MAC$SYMBOL, CHR$M_SYM_CHR!CHR$M_SYM_CH1
                                       $CHR_TABENTRY
                                                                                                                                    : (J)
                                       $CHR_TABENTRY
                                       SCHR TABENTRY
                                                                 MAC$XSYMBL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1
                                       SCHR_TABENTRY
                                                                  MAC$SYMBOL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1 ; (M-R)
                                        ENDR
                                       SCHR TABENTRY
                                                                 MAC$XSYMBL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1;(S)
                                       SCHR TABENTRY
                                                                 MAC$SYMBOL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1 ;(T-V)
                                        ENDR
                                       SCHR TABENTRY
                                                                 MAC$XSYMBL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1;(W)
                                       SCHR_TABENTRY
                                                                  MAC$SYMBOL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1 ; (X-Z)
        0160
                                        ENDR
                                                                 DSQOPN, SPECIAL, CHR$M SYM DLM
DXOR, SPECIAL, CHR$M SYM DEM
DSQCLS, SPECIAL, CHR$M SYM DLM
                                       SCHR_TABENTRY
                                       SCHR_TABENTRY
                                                                 MAC$XUPARROW, CHR$M SYM DLM ;(^)
MAC$SYMBOL, CHR$M_SYM_CR1!CHR$M_SYM_CHR ;(_)
                                       SCHR TABENTRY
                                                                                                                       :(])
                                       $CHR_TABENTRY
                                       $CHR_TABENTRY
                                       SCHR TABENTRY
                                       SCHR TABENTRY
                                                                 MAC$SYMNUM,,CHR$M_SYM_CHR!CHR$M_SYM_CH1 ;LETTERS A-F CAN STA
                                         ENDR
                                       SCHR_TABENTRY
                                                                 MAC$XSYMBL,,CHR$M_SYM_CHR!CHR$M_SYM_CH1 ;(G) .
```

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The 685 The 581 18

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The

MAC

Tab

```
.SBTTL INITIALIZED DATA STORAGE DEFINITIONS
                             295
296
297
298
299
299
                                          THIS SECTION DEFINES THE GLOBAL DATA STORAGE USED BY THE VAX-11 MACRO ASSEMBLER THAT IS INITIALIZED AT
                                          ASSEMBLY TIME.
                                           .ALIGN LONG
                                 MACSGK_ZERO::
          00000000
                                           LONG
                                                                              A GUARANTEED ZERO WORD
                                 MAC$GK_ONE::
                                                                              : A CONSTANT 1
          00000001
                                           LONG
                                 MAC$GK_INTSIZ::
                                                                               SIZE OF INTERMEDIATE BUFFER
                                                                               SIZE OF INT. BUFFER WE NEED TO ALLOCATE (2 LINK WORDS AND
          00001400
                                                  INT$K_BUFSIZ+<3*4>
                                          .LONG
                                                                               ; SIZE WORD)
                                 MACSG_1_PAGE::
SARGLST 2,MACSGK_1_PG_SIZ,-
                                                                              ; ARG BLOCK TO ALLOCATE 1 PAGE
                                MAC$G_2_PAGES::
$ARGLST 2,MAC$GK_2_PG_SIZ,-
MAC$GL_BASEADDR
                                                   MACSGL_BASEADDR
                                                                               ARG BLOCK TO ALLOCATE 2 PAGES
                                                                               AND STORE BASE ADDRESS HERE
                                 MACSGK_1_PG_SIZ::
          00000200
                                           LONG
                                                   512
                                                                               SIZE OF ONE PAGE
                                 MACSGK_2_PG_SIZ::
                     0060
          00000400
                                           LONG
                     0060
                                                   1024
                     0064
                                 MAC$G_LSTBUFDES::
                                                                               DESCRIPTOR FOR FAO
          000004181
                                           . LONG
                                                   MACSAB_LINE_END-MACSAB_LST_END
          000000021
                                                   MACSAB_LST_END
                                           LONG
                     0060
                                 MACSAL_ATIM_DSC::
                                                                              STRING DESCRIPTOR TO GET ASCII TIME
          00000014
                                           . LONG
                                                                              :TWENTY-THREE BYTE BUFFER
          0000004A
                                           LONG
                                                   MAC$AB_ATIM_BUF
                                                                               :ADDRESS OF BUFFER
                                 MACSAL_FTIM_DSC::
                                                                              STRING DESCRIPTOR FOR SUBTITLE LINE DATE
          00000014
                                           . LONG
          000000CD*
                                           LONG
                                                   MACSAB_SBT_DATE
                                 MACSGL_LIBTYPE::
                                                                              ; Library type = MACRO
          0000002
                                           LONG LBR$C_TYP_MLB
                                 MACSGL_LIBFUNC::
                                                                              : Library function = READ
          00000001
                     0080
                                           LONG
                                                   LBR$C_READ
                     0084
                                 MAC$GQ_LINEBFDS::
                                                                                Descriptor for line buffer
00000032'000003E8
                     0084
                                           LONG
                                                 INP$K_BUFSIZ,MAC$AB_LINEBF
                                 MAC$GQ_LISTBFDS::
                                                                                Descriptor for listing buffer
00000002 000003E8
                                          . LONG
                                                 INP$K_BUFSIZ, MAC$AB_LST_END
```

```
STORAGE ALLOCATION FOR VAX NATIVE ASSEMB 16-SEP-1984 02:18:06 VAX/VMS Macro V04-00 Page UNINITIALIZED DATA STORAGE DEFINITIONS 5-SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR;1
                                                                                                                                                                                                                                                                     (6)
                                340
341
342 :++
343 :--
3467
                                                                 .SBTTL UNINITIALIZED DATA STORAGE DEFINITIONS
             0094
0094
0094
                                                                 THIS SECTION DEFINES THE GLOBAL DATA STORAGE USED BY THE
              0094
                                                                 VAX-11 MACRO ASSEMBLER.
              0094
              0094
   00000000
                                                                 .PSECT MACSRW_DATA, NOEXE, LONG
                                348
349 $DEF
             0000
              ŎŎŎŎ
                                                                MACSGL_FLAGS .BLKL 2
                                                                                                                                                       GLOBAL ASSEMBLY FLAGS POINTED TO
                                                                                                                                                      ; BY R11
;CLI CALL BACK ADDRES
;ADDRESS OF COMMAND LINE
;LENGTH OF COMMAND LINE
              0008
                                                              MAC$GL_CLIADDR .BLKL 1 ;CLI CALL BACK ADDR
MAC$GL_CMDLIN .BLKL 1 ;ADDRESS OF COMMAND
MAC$GL_CMDLEN .BLKL 1 ;LENGTH OF COMMAND
MAC$GL_DIRFLG .BLKL 1 ;FLAGS SET BY /SHOW
MAC$GL_ENLISF .BLKL 1 ;FLAGS SET BY /SHOW
MAC$GL_INI_AP .BLKL 1 ;FLAGS CLEARED BY /
MAC$GL_INI_AP .BLKL 1 ;INITIAL AP
MAC$GL_INI_FP .BLKL 1 ;INITIAL FP
MAC$GL_INI_SP .BLKL 1 ;INITIAL SP
MAC$GL_INI_SP .BLKL 1 ;FINAL EXIT STATUS
FOLLOWING 4 ITEMS MUST NOT BE SEPARATED
                                351 SDEF
352 SDEF
353 SDEF
              0008
              OOOC
              0010
                                                                                                                                                      FLAG WORD FOR DIRECTIVES
FLAGS SET BY /SHOW/ENABLE IN COMMAND LINE
FLAGS CLEARED BY /NOSHOW/DISABLE IN COMMAND
INITIAL AP
                                354 SDEF
355 SDEF
              0014
              0018
                                356 SDEF
357 SDEF
              001C
                                 358 $DEF
                                 359 SDEF
              0020
                                 360 SDEF
              0030
                                 361 :***THE
                                362 :
363 $DEF
              0030
                                                                MAC$GB_MODE
MAC$GB_IMODE
MAC$GB_REG
              0030
                                                                                                                                                      ;PRIMARY MODE OF OPERAND ;INDEXED MODE
                                                                                                            .BLKB
                                364 $DEF
365 $DEF
              0031
                                                                                                           .BLKB
              0032
                                                                                                                                                       :REGISTER
              0033
                                366 $DEF
                                                                MAC$GB_IREG
                                                                                                            .BLKB
              0034
                                368 :***THE ABOVE 4 ITEMS MUST NOT BE SEPARATED 369 SDEF MACSGL_IMP_BEG .BLKL 0 ;BEG
             0034
                                                                MACSGL_IMP_BEG .BLKL
                                                                                                                                                      BEGINNING OF IMPURE AREA
             0034
                                370 $DEF
                                                                MACSGL_ARGPTR
             0034
                                                                                                           .BLKL
                                                                                                                                                      DURING MACRO DEFINITION
             0038
                                                              MAC$GL_ASCCNT .BLKL 1
MAC$GL_ABSFLAG .BLKL 1
MAC$GL_ASNPTR .BLKL 1
MAC$GL_BASEADDR .BLKL 1
MAC$GL_BLKPTR .BLKL 1
MAC$GL_CTLMSK .BLKL 1
MAC$GL_CRF_CNT .BLKL 1
MAC$GL_CRF_FLG .BLKL 1
MAC$GL_CRF_FLG .BLKL 1
MAC$GL_CRF_DCNT .BLKL 1
MAC$GL_CRF_MCNT .BLKL 1
MAC$GL_CRF_OCNT .BLKL 1
MAC$GL_CRF_OCNT .BLKL 1
MAC$GL_CRF_OCNT .BLKL 1
MAC$GL_CRF_TCNT .BLKL 1
                                372 SDEF
373 SDEF
374 SDEF
375 SDEF
                                                                                                                                                  CHARACTER COUNT FOR .ASCIX DIRECTIVES
ABSOLUTE FLAG
POINTER TO SYM BLOCK FOR ASSIGNMENT EXPR
RETURNS BASE ADDRESS FROM VM GET
POINTER TO INPUT BLOCK (GETARGS)
MASK OF FLAG BITS SET FROM CLI
COUNT # TIMES CREF CALLED FOR SYMBOLDEF/REF
FLAGS FOR CREF--WHAT TO CREF
# DIRECTIVE DEF/REF CREF CALLS
# MACRO DEF/REF CREF CALLS
# OPCODE REF CALLS
CREATED SYMBOL NUMBER
POINTER TO CURRENT INPUT FDB
O OR INDEX FOR DEFAULT DISPLACEMENT
FOR PC-RELATIVE W/NO "X"
COUNT OF ERRORS ENCOUNTERED
QUEUE HEAD FOR ERROR LIST
             0038
                                                                                                                                                      CHARACTER COUNT FOR .ASCIX DIRECTIVES
              0030
                                                                                                           BLKL 1
             0040
              0044
                                376 SDEF
377 SDEF
              0048
              0040
                                378 SDEF
379 SDEF
              0050
              0054
                               379 $DEF
380 $DEF
381 $DEF
382 $DEF
383 $DEF
385 $DEF
386 $DEF
387 $DEF
388 $DEF
389 $DEF
390 $DEF
391 $DEF
              0058
              0050
              0060
              0064
              0068
             006C
0070
              0074
                                                               MAC$GL_ERRCT .BLKL
MAC$GL_ERR_LIST .BLKL
MAC$AB_ETXBUF .BLKL
MAC$GL_ETXLEN .BLKL
MAC$GL_EXPOPVL1 .BLKL
MAC$GL_EXPOPVL2 .BLKL
MAC$GL_FINPTF .BLKL
                                                                                                                                                      ERROR TEXT BUFFER
                                                                                                                                512
              0080
                                                                                                                                                      LENGTH OF TEXT IN ETXBUF
                                392 SDEF
393 SDEF
394 SDEF
395 SDEF
                                                                                                                                                      ; NON-ZERO WHEN FIRST INPUT FILE HAS BEEN PAR
                                                                                                                                                     QUEUE HEAD FOR FREE PAGES
HIGH ORDER 32 BITS OF OPERAND
```

```
397 SDEF
398 SDEF
399 SDEF
                         399 SDEF
400 SDEF
401 SDEF
402 SDEF
403 SDEF
404 SDEF
405 SDEF
406 SDEF
409 SDEF
410 SDEF
                         410 SDEF
411 SDEF
413 SDEF
414 SDEF
415 SDEF
416 SDEF
417 SDEF
418 SDEF
419 SDEF
                         $DEF

420 $DEF

421 $DEF

422 $DEF

423 $DEF

424 $DEF

425 $DEF

426 $DEF

427 $DEF

428 $DEF

429 $DEF

430 $DEF

433 $DEF

433 $DEF

434 $DEF

435 $DEF

436 $DEF

437 $DEF

438 $DEF

438 $DEF

438 $DEF

438 $DEF

438 $DEF

438 $DEF

439 $DEF
 035C
 0360
 0368
036C
0370
0374
0378
037C
0388
0380
0394
 0398
0390
03A0
03A4
                           440 SDEF
441 SDEF
442 SDEF
443 SDEF
 03AC
03B0
03B4
03B8
03BC
03C0
03C8
                           444 SDEF
445 SDEF
                           446 SDEF
447 SDEF
448 SDEF
449 SDEF
450 SDEF
451 SDEF
452 SDEF
453 SDEF
```

21 6F 65

VO

2A

45

2B

21 6F 65

> 35 21 34

> 41 30 31

4E

2B

MA

21

2A

2B

21 6F 65

2B

49 34 2E

28

39 2A

MAC\$DATA Symbol table	STORAGE ALLOCATIO	ON FOR VAX NATIVE ASSEMB 16	-SEP-1984 02:18:06 VAX/VMS Macro V04-00 -SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR	Page 14
\$ \$11	= 000003E8 = 00000002 = 000003E8 = 00000010	DUPX	= 0000002A = 00000030	
ARG\$K_SIZE AUD\$K_SIZE BIT	= 000003E8 = 00000010 = 0000005	DXOR ERRO1	= 00000030 = 00000001 = 00000002 = 00000003 = 00000004 = 00000005 = 00000006 = 00000007 = 00000008 = 00000009 = 000000000000000000000000000000000000	
DI NIK	= 00000005 = 00000020 = 00000020 = 00000040 = 00000010	ERRO1 ERRO2 ERRO3 ERRO4 ERRO5 ERRO6 ERRO7 ERRO8 ERRO9	= 00000003 = 00000004	
CHR\$M_COMMA_CR CHR\$M_ILL_CHR CHR\$M_NUM_BER CHR\$M_SPA_MSK CHR\$M_SYM_CH1 CHR\$M_SYM_CHR CHR\$M_SYM_CHR CHR\$M_SYM_CHR CHR\$M_SYM_DLM	= 00000040 = 00000010	ERROS ERRO6	= 00000005 = 0000006	
CHR\$M_SPA_MSK CHR\$M_SYM_CH1 CHP\$M_SYM_CHP	= 00000001	ERRO7 ERRO8	= 00000007 = 00000008 - 00000000	
CHRSM-SYM-DLM CHRSV-COMMA_CR	= 00000004 = 00000002 = 00000005	FF	= 00000000 = 0000000A	
CHR\$V_CVTLWC CHR\$V_ILL_CHR	= 00000061 = 0000006	HASHSZ HYPHEN	= 0000007F = 0000002D	
CHR\$V_COMMA_CR CHR\$V_CVTLWC CHR\$V_ILL_CHR CHR\$V_NOCVT CHR\$V_NUM_BER CHR\$V_SPA_MSK CHR\$V_SYM_CH1 CHR\$V_SYM_CH1 CHR\$V_SYM_CHR	= 0000007F = 00000004 = 00000000	ID INP\$B_ARGCT	= 0000007F = 0000000C 0000001C 00000021 = 000003E8 0000003C 0000001D 00000008 0000000C 0000000C	
CHR\$V_SYM_CH1 CHR\$V_SYM_CHR	= 00000000 = 00000003 = 00000002 = 00000001 = 0000000D	INP\$B_ARGCT INP\$K_BLKSIZ INP\$K_BUFSIZ INP\$K_IRPSIZ INP\$L_ARGS INP\$L_ARGS INP\$L_GETL INP\$L_IFLVL INP\$L_IFVAL INP\$L_IFVAL INP\$L_NXTL	= 000003E8 000003C	
***	= 00000001 = 0000000D	INP\$L_ARGS INP\$L_GETL	000001D 0000008	
DAND DANGCLS DANGOPN	= 0000001D = 00000016 = 00000015	INP\$L_IFLVL INP\$L_IFVAL	0000000C 00000010	
DAT DBUP	= 00000020 = 000002B	INP\$L_NXTL INP\$L_PAGP	0000004 00000018	
COLON	= 00000018 = 00000010	INP\$L_PAGP INP\$L_RPTCNT INT\$K_BUFSIZ INT\$K_BUFWRN KADDRESS	0000014 = 000013F4 = 00001390	
DCOMMA DDIV DEOL	= 0000000F = 0000001C = 0000000B	KADDRESS KALIGN	= 00000037 = 000005A	
DEQ DGUP	= 00000011 = 0000002c	KASCIC KASCID KASCII	= 00000033 = 00000078	
OINTEGER OIUP	= 00000011 = 0000002C = 00000022 = 0000002D = 00000032	KASCIZ	= 00000033 = 00000078 = 00000034 = 00000035 = 00000040	
DLUP DMASK DMINUS	= 0000002E = 00000032 = 0000001A	KBI KD KBI KB	= 0000003F = 00000040 = 00000041	
OOPCODE OOPN	= 0000000E	KBLKF KBLKG	= 00000042 = 0000007E	
OOR OPC	= 00000017 = 0000001E = 00000012 = 00000019	KBLKA KBLKB KBLKD KBLKF KBLKG KBLKH KBLKL KBLKU KBLKU KBLKQ KBLKW KBYTE KCROSS KDEBUG	= 0000007F = 00000043	
PPLUS PPOUND DSQCLS	= 00000019 = 00000021 = 00000014	KBLKO KBLKO	= 00000080 = 00000044 = 00000045	
SQOPN Sup	= 00000013 = 0000002F	KBYTE KCROSS	= 00000038 = 00000079	
OTIMES DUPA	= 0000001B = 00000023	KDEBUG KDFLT KDOUBLE	= 00000055 = 0000007B	
OUPB OUPC OUPD	= 00000024	KDSABL	= 00000039 = 00000056 = 00000057	
DUPF	= 00000019 = 00000014 = 00000013 = 00000025 = 00000023 = 00000024 = 00000025 = 00000026 = 00000029 = 00000027	KENABL KEND KENDC KENDM	= 00000041 = 0000007E = 0000007F = 00000043 = 00000044 = 00000045 = 00000079 = 00000079 = 00000079 = 00000079 = 00000079 = 00000076 = 00000076 = 00000076 = 00000076 = 00000076	
DUPO	= 00000027	KENDM	= 00000053	

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MAC\$DATA Symbol table	STORAGE ALLOCATIO	ON FOR VAX NATIVE ASSEMB 16-SEP	-1984 02:18:06 VAX/VMS Macro V04-00 -1984 01:47:48 [MACRO.SRC]DATA.MAR;1	Page 15
KENDR KENTRY	= 0000004F = 00000058 = 0000005B = 0000005D = 0000003A = 0000003B = 00000081 = 0000005E = 0000006A = 0000006A = 00000046 = 00000049	LBRSC-TYP MLB LENSK-UPXTAB LENSK-XUPTAB LENSK-XUPTAB LENSK-XUPTAB LSTSK-BUFSIZ LSTSK-TITTE SIZ MABSB-ARGNO MACSAB-ATIM-BUF MACSAB-ATIM-BUF MACSAB-ATIM-BUF MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-HD-RAGE MACSAB-LST-LIN MACSAB-LST-LIN MACSAB-LST-OP1 MACSAB-LST-OP1 MACSAB-LST-OP2 MACSAB-SBT-DATE MACSAB-SBT-DATE MACSAB-SBT-FILE MACSAB-SBT-FILE MACSAB-SBT-SBTL	= 00000001 = 00000002	
KERROR KEVEN	= 00000071 = 0000005B	LENSK-UPXTAB	= 000000000 G = 00000000 G = 00000000 G = 000000000 G = 000000000 G = 000000000 G = 000000000 G = 00000000 G = 000000000 G = 00000000 G = 000000000 G = 00000000	
CEVEN CEXTRN	= 00000050	LST\$K_BUFSIZ	= 00000086	
FIELD FLOAT GFLOAT	= 0000003B	LSTSK-TITTE SIZ	= 00000030	
GLOBL	= 00000081 = 0000005E	MAB\$B_ARGNO MAB\$B_NAME	00000005	
HFLOAT IDENT	= 00000082 = 000006A	MABSK BLKSIZ	00000000	
IF IFF	= 00000046	MAB\$L_LINK	0000000	
IFT	= 0000048	MACSAB_ATIM_BUF	0000004A RG 09	
IFTF IIF	= 0000049 = 000004A = 0000047 = 000005F = 000004B = 000004C	MAC\$AB_CMSK_TAB MAC\$AB_ETXBUF	0000004A RG 09 00000000 RG 03 00000084 RG 09 00000000 RG 09 00000001 RG 09 00000021 RG 09 000000248 RG 09 00000032 RG 08 00000032 RG 08 00000012 R 08 00000012 R 08 00000012 R 08 00000012 RG 08	
INCLUDE	= 0000005F = 0000004B	MACSAB_HD_END	00000084 RG 09	
IRP IRPC LIBRARY	= 00000040	MACSAB_HD_PAGE	0000007C RG 09	
ITNK	= 00000060	MACSAB_HD_TITLE MACSAB_HD_TSTRG	00000001 RG 09 00000021 RG 09	
LIST LONG MACRO MCALL MDELETE MEXIT	= 00000040 = 00000085 = 00000061 = 00000050 = 00000051	MACSAB HD VERSN MACSAB IDENT	00000060 RG 09	
MACRO MCALL	= 00000050	MACSAB_LINEBF	00000032 RG 08	
MDELETE	= 00000054 = 00000052	MACSAB_LPBUF	0000034C RG 06	
NARU	= 000000003	MACSAB_LST_AUDT MACSAB_LST_END	= 0000034C RG 06 = 00000012 R 08 00000002 RG 08 00000032 RG 08 00000020 RG 08 00000012 RG 08 00000025 RG 08 000000368 RG 06	
NCHR	= 00000064 = 000007A	MACSAB_LST_LIN	00000032 RG 08	
NCROS NLIST NTYPE	= 00000062 = 0000074	MACSAB_LST_OP2	00000012 RG 08	
DCTA	= 00000083	MACSAB_PSC_SBF	00000025 RG 08	
ODD OPDEF	= 0000005C = 0000075	MACSAB_SBT_DATE MACSAB_SBT_END	000000CD RG 09 00000108 RG 09 000000E3 RG 09 00000084 RG 09 00000103 RG 09 000000103 RG 09 000000A4 RG 09 0000002B RG 08 0000008ED RG 06	
PACKED PAGE	= 00000036 = 0000065	MACSAB_SBT_FILE	000000E3 RG 09	
PRINT	= 00000072	MAC SAB SBT PAGE	00000103 RG 09	
PSECT QUAD	= 00000066 = 0000003D	MACSAB_SBT_SBTL MACSAB_SEQ_NUM	000000A4 RG 09 0000002B RG 08	
REF1 REF16	= 0000006D = 0000084	MACSAB_TITE MACSAB_TMPBUF	000008ED RG 06	
REF2	= 0000006F	MACSAB_TMPSY1	000008CD RG 06	
REF4 REF8	= 0000006F = 00000070	MAC\$AB_TMPSYM MAC\$AB_UPXTAB	000008AD RG 05	
REPT RESTORE	= 0000004D = 00000067	MACSAB UPXTOKEN	00000010 RG 05	
SAVE	= 00000068	MACSAB_XUPTOKEN	0000002c RG 05	
SGNB	= 0000006B = 0000007C	MACSAB UPXTAB MACSAB UPXTOKEN MACSAB XUPTAB MACSAB XUPTOKEN MACSAL ATIM DSC MACSAL CHRTAB MACSAL FTIM DSC MACSAL FTIM DSC MACSAL PSC SLB MACSAL PSTACK MACSAL VALSTACK MACSCHRERR	00000108 RG 09 00000084 RG 09 00000103 RG 09 00000004 RG 09 0000002B RG 08 000008ED RG 06 000008CD RG 06 000008CD RG 06 000008AD RG 06 00000000 RG 05 00000010 RG 05 0000002C RG 05 0000002C RG 05 0000002C RG 05 0000002C RG 05 00000074 RG 05 00000074 RG 05 00000074 RG 05 00000074 RG 05 00000014 RG 07 00000014 RG 07 00000014 RG 07 00000018 RG 06	
SGNW TITLE	= 0000007D = 00000069	MACSAL_FTIM_DSC MACSAL_PSC_SLB	00000074 RG 05 000003E8 RG 06	
VECTOR WARN	= 00000059 = 00000073	MACSAL PSTACK	0000014 RG 07 000001A4 RG 07	
WEAK	= 0000006C	IIICOCIIICIA	****** X 04	
WORD XFER	= 0000003E = 00000077	MAC\$GB_IMODE MAC\$GB_IREG	00000031 RG 06 00000033 RG 06	

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MAC\$DATA Symbol table	STORAGE ALLOCATION	ON FOR VAX NATIVE ASSEMB	16-SEP-1984 02:18:06 VAX/VMS Macro V04-00 5-SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR;1	Page	16 (6)
MAC\$GB_MODE MAC\$GB_RDXNDX MAC\$GB_REG MAC\$GB_VAL1 MAC\$GB_VAL2 MAC\$GB_VAL3 MAC\$GB_VAL4 MAC\$GK_IPG_SIZ MAC\$GK_IPG_SIZ MAC\$GK_IMP_SIZ MAC\$GL_ASSPTR MAC\$GL_ASSPTR MAC\$GL_ASSPTR MAC\$GL_CRF_OCNT MAC\$GL_CRF_CNT MAC\$GL_ERRPT	0000005A4 RG 000005A5 RG 000005A7 RG 000005C RG 0000005C RG 0000003C RG 0000003C RG 0000003C RG 0000003K RG 0000003K RG 0000003K RG 0000003K RG 0000004K RG 0000004K RG 0000005C RG 0000005K RG 00000005K RG 0000005K RG 00000005K RG 0000005K RG 00000005K RG 0000005K RG 0000005K RG 00000005K RG 0000005K RG 00000005K RG 0000005K RG 00000005K RG 0000005K RG	MAC\$GL_INFOCNT MAC\$GL_INI_AP MAC\$GL_INI_AP MAC\$GL_INI_SP MAC\$GL_INPUTP MAC\$GL_INPUTP MAC\$GL_INTCNT MAC\$GL_INTPAGRQ MAC\$GL_INTPAGRQ MAC\$GL_INTWRNPT MAC\$GL_INTWRNPT MAC\$GL_KEYMAC MAC\$GL_KEYMAC MAC\$GL_LINBAS MAC\$GL_MAC\$GL_MAC\$GL MAC\$GL_MAC\$GL_MAC\$GL MAC\$GL_MAC\$GL MAC\$GL_MAC\$GL MAC\$GL_PFL_CMD MAC\$GL_PFL_CMD MAC\$GL_PFL_CMD MAC\$GL_PFL_TINI	00000208 RG 06 0000024 RG 06 0000024 RG 06 00000318 RG 06 00000320 RG 06 00000320 RG 06 000002E4 RG 06 000002E4 RG 06 00000324 RG 06 00000328 RG 06 00000328 RG 06 00000324 RG 06 00000324 RG 06 00000324 RG 06 00000324 RG 06 00000344 RG 06 00000348 RG 06 00000348 RG 06 00000340 RG 06 00000347 RG 06 00000350 RG 06		

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MAC\$DATA Symbol table	STORAGE ALLOCATION FOR VAX NATIVE ASSEMB 16-SEP-1984 02:18:06 VAX/VMS Macro V04-00 5-SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR;1	Page 17 (6)
MAC\$GL_PRMINBL MAC\$GL_PSC_BLKP MAC\$GL_PSC_LIST MAC\$GL_PSC_TMAX MAC\$GL_PSC_TMAX MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_PSC_TT MAC\$GL_SAVE_PC MAC\$GL_SAVE_BAS MAC\$GL_SAVE_BAS MAC\$GL_SAVE_BAS MAC\$GL_SAVE_PAG MAC\$GL_SAVE_PAG MAC\$GL_SAVE_PAG MAC\$GL_SAVE_PAG MAC\$GL_STATUS MAC\$GL_STATUS MAC\$GL_STATUS MAC\$GL_SYM_PAGL MAC\$GL_SYM_PAGL MAC\$GL_SYM_LOCC MAC\$GL_SYM_NLOCC MAC\$GL_SYM_PAGL MAC\$GL_SYM_PAGL MAC\$GL_SYM_PAGL MAC\$GL_SYM_PAGL MAC\$GL_SYM_PAGL MAC\$GL_SYM_PAGL MAC\$GL_SYM_PAGL MAC\$GL_SYM_NCT MAC\$GL_SYM_NCT MAC\$GL_SYM_NCT MAC\$GL_SYM_PAGL	O0000518 RG	

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STORAGE ALLOCATION FOR VAX NATIVE ASSEMB 16-SEP-1984 02:18:06 VAX/VMS Macro V04-00 5-SEP-1984 01:47:48 [MACRO.SRC]DATA.MAR;1
       MACSDATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18
       Symbol table
                                                                                                                                                                                                         = 00000004
= 00006400
= 00000001
= 00004000
= 00000080
= 000000080
= 00000020
 PSCSM OVR
PSCSM PAGE
PSCSM PIC
PSCSM RD
PSCSM REL
PSCSM SHR
PSCSM WORD
PSCSM WORD
PSCSM WORD
PSCSV ALIGNMENT
PSCSV ALIGNMENT
PSCSV ALIGNMENT
PSCSV FLAG
PSCSV PIC
PSCSV PIC
PSCSV PIC
PSCSV PIC
PSCSV PIC
PSCSV PIC
PSCSV FLAG
PSCSV WRT
PSCSV FLAG
PSCSV BINARY
RDXSV DECIMAL
RDXSV DOUBLE
RDXSV FLOAT
RDXSV FLOAT
RDXSV FLOAT
RDXSV HFLOAT
RDXSV HFLOAT
RDXSV HFLOAT
RDXSV HFLOAT
RDXSV OCTAL
REGS PC
                                                                                                                                                                                                                                                                                                                                                                                  SUM W LINE NO
SYMSB SEG
SYMSB TOKEN
SYMSB TOKEN
SYMSK BLKSIZ
SYMSK MAXLEN
SYMSK TWOCOL
SYMSK LINK
SYMSK ABS
SYMSM ABS
SYMSM ABS
SYMSM DEF
SYMSM DEF
SYMSM DEF
SYMSM DEF
SYMSM DEF
SYMSM DEF
SYMSM BLOCAL
SYMSM DEF
SYMSM BLOCAL
SYMSW BLOCAL
SY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FFFFFFD
00000200
00004400
00000180
00000004
0000000E
                                                                                                                                                                                                          =
                                                                                                                                                                                                           =
                                                                                                                                                                                                           =
                                                                                                                                                                                                           =
                                                                                                                                                                                                          =
                                                                                                                                                                                                        =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000009
                                                                                                                                                                                                                      00000007
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000003
                                                                                                                                                                                                                    00000001
0000000F
                                                                                                                                                                                                         =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000002
                                                                                                                                                                                                         =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000006
     RRREG
                                                                                                                                                                                                                      00000031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 0000000A
     SEMI
                                                                                                                                                                                                                      0000003B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000007
      SIZ.
                                                                                                                                                                                                                      00000001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 0000000B
SPECIAL
STBSK PG MISS
SUM B FLAGS
SUM K BLN
SUM L ISDATA
SUM L STS
SUM M AUDIT
SUM M AUDITNEW
SUM M DELETE
SUM M SRCUPD
SUM M SRCUPD
SUM Q AUDDS
SUM Q FILESP
SUM V AUDIT
SUM V AUDITNEW
SUM V SRCUPD
     SPECIAL
                                                                                                                                                                                                                      80000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 0000000E
                                                                                                                                                                                                                      0000000A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000001
                                                                                                                                                                                                                       0000001C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000000
                                                                                                                                                                                                                      00000010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      00000009
                                                                                                                                                                                                                        00000004
                                                                                                                                                                                                                                                                                                                                                                                     TAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000009
                                                                                                                                                                                                                      00000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        = 00000400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       = 0000000F
                                                                                                                                                                                                                    00000002
00000010
00000004
00000008
00000010
                                                                                                                                                                                                         =
                                                                                                                                                                                                         =
                                                                                                                                                                                                                       00000000
                                                                                                                                                                                                                     00000001
00000004
00000002
00000003
                                                                                                                                                                                                          =
                                                                                                                                                                                                         =
                                                                                                                                                                                                                        0000001A
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Page

! Psect synopsis !

PSECT name	Allocation	PSECT No.	Attributes			
. ABS BLANK . \$ABS\$ MAC\$CHR_FLG_TAB MAC\$CHRTAB MAC\$RO_DATA MAC\$RW_DATA MAC\$PARSE_DATA MAC\$PARSE_DATA MAC\$PAGE_HEADER MAC\$PRO_TIMES	00000000 (0.) 00000000 (0.) 0000003C (60.) 00000100 (256.) 00000400 (1024.) 0000094 (148.) 0000098 (2366.) 00000588 (1464.) 00000426 (1062.) 00000108 (264.) 00000084 (180.)	00 (0.) 01 (1.) 02 (2.) 03 (3.) 04 (4.) 05 (5.) 06 (6.) 07 (7.) 08 (8.) 09 (9.) 0A (10.)	NOPIC USR CONOPIC USP USP CONOPIC USP CONO	ON ABS ON REL	LCL NOSHR NOEXE LCL NOSHR EXE GBL NOSHR NOEXE GBL NOSHR NOEXE GBL NOSHR NOEXE LCL NOSHR NOEXE	RD WRT NOVEC BYTE RD WRT NOVEC BYTE RD NOWRT NOVEC LONG RD NOWRT NOVEC LONG RD WRT NOVEC LONG

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.07	00:00:00.93
Initialization Command processing Pass 1	30 108 324	00:00:00.46	00:00:02.84
Symbol table sort	324	00:00:10.23	00:00:38.89
Symbol table sort Pass 2	151 65	00:00:01.88	00:00:06.94
Symbol table output	65	00:00:00.31	00:00:00.82
Psect synopsis output Cross-reference output Assembler run totals	õ	00:00:00.04	00:00:00.04
Assembler run totals	683	00:00:13.96	00:00:54.52

The working set limit was 1800 pages.
68561 bytes (134 pages) of virtual memory were used to buffer the intermediate code.
There were 50 pages of symbol table space allocated to hold 1008 non-local and 0 local symbols.
581 source lines were read in Pass 1, producing 54 object records in Pass 2.
18 pages of virtual memory were used to define 17 macros.

! Macro library statistics !

Macro Library name

\$255\$DUA28:[SHRLIB]SUM.MLB;1
\$255\$DUA28:[MACRO.OBJ]MACRO.MLB;1
\$255\$DUA28:[SYSLIB]STARLET.MLB;2
TOTALS (all libraries)

Macros defined

16

943 GETS were required to define 16 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LIS\$:DATA/OBJ=OBJ\$:DATA MSRC\$:DATA/UPDATE=(ENH\$:DATA)+LIB\$:MACRO/LIB+SHRLIB\$:SUM/LIB

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